Options
Title: nbfm
Author: shashank
Output Language: Python
Generate Options: QT GUI

Variable
ID: samp_rate
Value: 32k

Variable
ID: msg_amplitude
Value: 1

Variable
ID: carrier_amplitude
Value: 20

Variable
ID: beta
Value: 1.59236u

Variable
ID: fc
Value: 10k

Variable
ID: fm
Value: 1k

Variable
ID: kf
Value: 10m

QT GUI Time Sink
Name: Message Signal
Number of Points: 1.024k
Sample Rate: 32k
Autoscale: Yes
[in]

QT GUI Frequency Sink
Name: Message Signal
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 32k
[in]

Signal Source
Sample Rate: 32k
Waveform: Square
Frequency: 1k
Amplitude: 1
Offset: 0
Initial Phase (Radians): 0
[out]

Integrate
Decimation: 1
[in] [out]

Multiply Const
Constant: 10m
[in] [out]

Complex To Float
[in] [re] [im]

Null Sink
[in]

Multiply
[in0] [in1] [out]

Multiply Const
Constant: -1
[in] [out]

Add
[in0] [in1] [out]

Signal Source
Sample Rate: 32k
Waveform: Cosine
Frequency: 10k
Amplitude: 20
Offset: 0
Initial Phase (Radians): 0
[out]

Hilbert
Num Taps: 65
[in] [out]

Throttle
Sample Rate: 32k
Limit: None
[in] [out]

QT GUI Time Sink
Name: Modulated Signal
Number of Points: 1.024k
Sample Rate: 32k
Autoscale: Yes
[in]

QT GUI Frequency Sink
Name: Modulated Signal
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 32k
[in]